

ABSTRACT

An antenna diversity receiving system is disclosed which includes an antenna device
2 with a plurality of FM antennas and a controllable switching circuit for sequentially
switching through one of the plurality of FM antennas via an antenna cable to a receiver upon
4 reception of a switching control signal. The receiver has a multipath detector coupled to a
pulse generator for generating a pulse signal to be used as such switching control signal. To
6 secure accurate detection of the switching control signal, the pulse generator is coupled to
a pulse shaper to convert the pulse signal of the pulse generator into a pulse signal pair. The
8 pulse signal pair has a first signal pulse followed by a second signal pulse having a signal
polarity opposite to the signal polarity of the first signal pulse. The pulse signal pair has a
10 waveform varying symmetrically around a reference level and is supplied through the
antenna cable to the antenna device.

Patented